

Chlorpromazine-induced cutaneous pigmentation — effect of replacement with clozapine

Dear Sir:

Chlorpromazine induces abnormal skin pigmentation (ASP) in areas exposed to sunlight.¹ The prevalence of ASP in chronically hospitalized psychiatric patients varies from 1% to 2.9%.² In a cross-sectional study, Ban et al² noted that 6 of their 13 patients with ASP were not receiving chlorpromazine at the time of evaluation, including a patient receiving clozapine, and concluded that there was no relation between the type of neuroleptic used and ASP. Unfortunately, information on prior exposure to chlorpromazine was not provided. In a longitudinal study,³ we showed that replacement of chlorpromazine with haloperidol, levomepromazine, trifluoperazine, thioproperazine or pipotiazine resulted in complete resolution of ASP over a period of 6 months to 5 years. We now report the outcome in a patient with ASP in whom treatment with chlorpromazine was replaced with clozapine.

A 45-year-old female patient with blue eyes and blond hair, suffering from schizophrenia since the age of 13, received a lifetime exposure of at least 1748 g of chlorpromazine. At age 36 a blue discoloration of the skin was clearly evident. Eventually, chlorpromazine was discontinued and clozapine substituted (up to a maximum dosage of 600 mg per day). The ASP completely resolved over a period of 4 years. She has now been receiving clozapine (at a current dosage of 400 mg per day) for a total of 6 years and shows no signs of ASP.

This finding, together with our previous observations³ and those of Ewing and Einarson⁴ with loxapine substitution, and O'Croinin and Zibin⁵ with flupenthixol substitution, support our view that ASP is an exclusive side effect of chlorpromazine; substitution with a variety of other neuroleptics, including clozapine, allows the condition to resolve, although it may take several years to do so.

References

1. Greiner AC, Berry K. Skin pigmentation and corneal and lens opacities with prolonged chlorpromazine therapy. *CMAJ* 1964;90:663-5.
2. Ban TA, Guy W, Wilson WH. Neuroleptic-induced skin pigmentation in chronic hospitalized schizophrenic patients. *Can J Psychiatry* 1985;30:406-8.
3. Lal S, Bloom D, Silver B, Desjardins B, Krishnan B, Thavundayil J, et al. Replacement of chlorpromazine with other neuroleptics: effect on abnormal skin pigmentation and ocular changes. *J Psychiatry Neurosci* 1993;18: 173-7.
4. Ewing DG, Einarson TR. Loxapine as an alternative to phenothiazines in a case of oculocutaneous skin pigmentation. *Am J Psychiatry* 1981;138:1631-2.
5. O'Croinin F, Zibin T. Re: Replacement of chlorpromazine with other neuroleptics: effect on abnormal skin pigmentation and ocular changes [comment]. *J Psychiatry Neurosci* 1994;19:226. Comment on: *J Psychiatry Neurosci* 1993;18:173-7.

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* Guidelines for the Diagnosis and Pharmacological Treatment of Depression. Canadian Network for Mood and Anxiety Treatment (C.A.N.M.A.T.) Depression Working Group 1st Edition 1999.

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